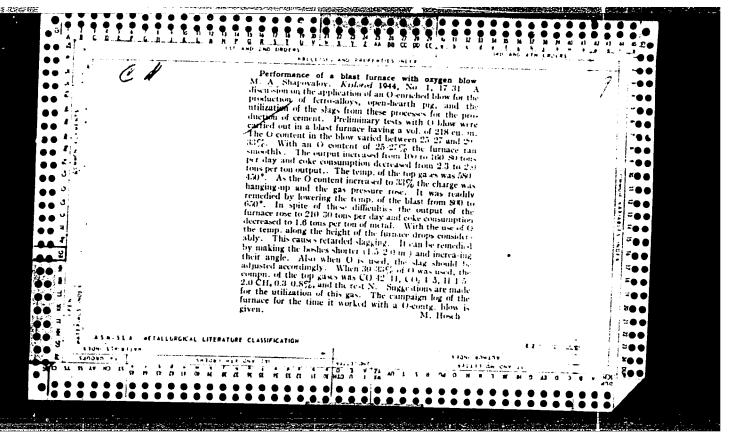
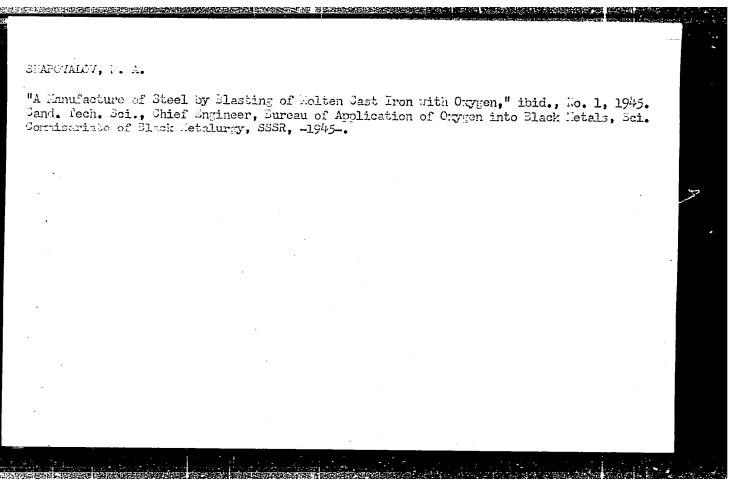
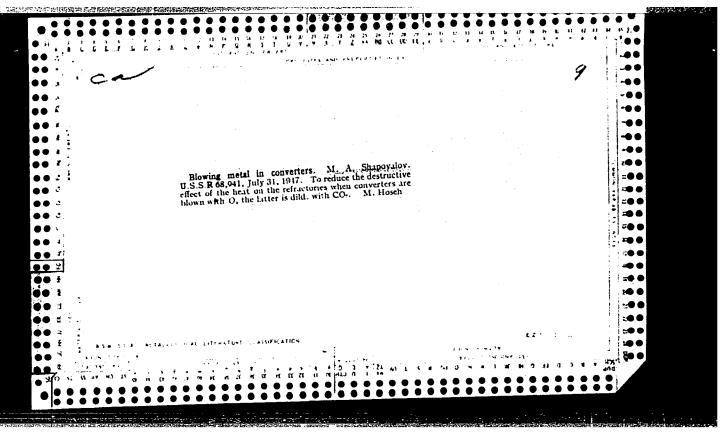
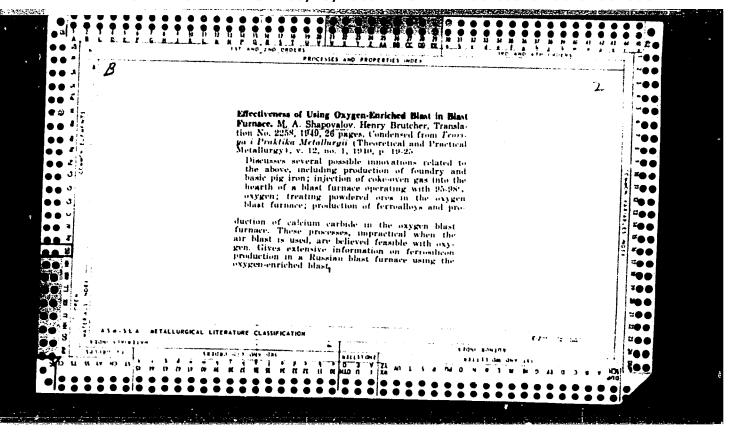
SHAPOVALOV, Mikhail Antonovich

"Exceptimental Cata on a Mast Jurnace Kun on Blast Enriched with Oxygon," Kislored, No. 1, 1976. Cand. Tech. Sei., Engr.









SHAPOVALOV, M. A.

"Letter to the Editor," Vest. Svyazi, No.7, p. 17, 1953

Chief, Labor and Wage Section, Khabarovsk Kray Communications Admin.

Translation No. 543, 27 Apr 56

CIA-RDP86-00513R001548610004-2 "APPROVED FOR RELEASE: 08/23/2000

HAPENPICK, 17.17.

137-1958-3-4736

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 38 (USSR)

Shapovalov, M. A. AUTHOR:

Means of Increasing the Productivity of Blast Furnaces and of

Decreasing the Coke Consumption (Puti uvelicheniya TITLE:

proizvoditeľ nosti domennykh pechey i snizheniya raskhodu koksa)

V sb.: Issled domennogo protsessa Moscow, AN SSSR, 1957, PERIODICAL:

pp 55-84

The author examines problems dealing with methods designed to ensure an even descent of charge examined together with prob-ABSTRACT:

lems of maximal development of indirect reduction of ores in blast furnaces in the process of forced smelting. In order to increase the gas permeability of the column of charge material in the blast furnace, it is recommended that all fines (less than 7-10 mm) be removed from the ore and from the agglomerate, and that lumps > 30-40 mm be crushed and segregated according to size. In order to achieve optimal fluidity and fusibility of the primary slags, the alkalinity of the fluxed sinter should also

be carefully selected The increase in smelting intensity is also significantly dependent on increased gas pressures in the furnace,

Card 1/2

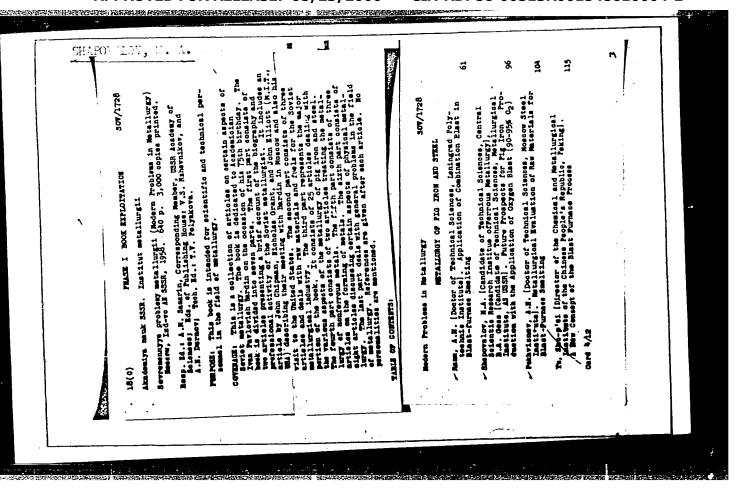
CIA-RDP86-00513R001548610004-2 "APPROVED FOR RELEASE: 08/23/2000

137-1958-3-4736

Means of Increasing the Productivity of Blast Furnaces (cont.)

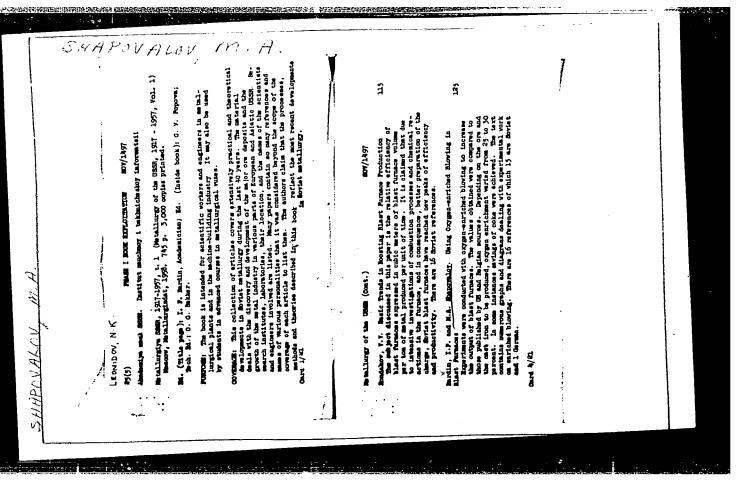
increased number of tuyeres, and improved design of the blast furnace contour. The problem of minimum specific coke consumption in blast furnaces is examined together with possible means of its realization Ye V.

Card 2/2



"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548610004-2



AUTHOR: Shapovalov, M. A.

1.33-58-5-1/31

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TITLE:

Blowing Reducing Gases Into the Blast Furnace Hearth (O vdavanii vosstanovitelinykh gazov v gorn domennoy

pechi)

PERIODICAL: Stal', 1958, Nr 5, pp 385-390 (USSR)

ABSTRACT: The problem of blowing in reducing gases (coke oven and natural gas) into the blast furnace hearth is discussed. It is pointed out that with increasing blast temperature up to 1100°C, decreasing content of silicon (0.5%) and manganese (0.3%) in pig iron and further improvement in the preparation of burden materials a considerable decrease in carbon required as a source of heat, can be obtained. However, with a low carbon consumption the

decrease in carbon, required as a source of incide, obtained. However, with a low carbon consumption the carbon monoxide formed may be insufficient for the attainment of a maximum degree of indirect reduction in the stack and thus an increase in coke rate will be necessary. If the furnace is supplied with CO preferably

necessary. If the lurhace is supplied with source, then in a mixture with hydrogen from an external source, then the coke rate will be determined only by the heat

requirements of the furnace and thus can be substantially reduced. The dependence of the consumption of gasified

Card 1/3 carbon per ton of pig on the percentage of indirect

133-58-5-1/31

Blowing Reducing Gases Into the Blast Furnace Hearth

reduction blast temperature and ${\rm CO/CO_2}$ ratio in the top gas is shown in Fig.1 and Table 1. The most suitable place of introduction of the reducing gas is through tuyeres (Fig.2). Blowing in coke oven gas into the hearth of a furnace operating on normal air blast does not lead to a substantial enrichment of furnace gas with carbon monoxide and hydrogen due to a large amount of nitrogen in the hearth gas (Fig.7a), Therefore, an addition of coke oven gas to blast will give only economy in coke without alteration in the furnace cutput. With simultaneous oxygen enrichment of blast (Fig. 7b) the hearth gas will be considerably enriched in carbon monoxide and hydrogen and the total amount of the hearth gas will be smaller than with atmospheric blast, thus a decrease in coke rate and an increase in the driving rate are possible. Heat balances for smelting pig with 30% oxygen enriched blast and blowing in either coke oven or natural gas are shown in Table 2 (blast contains 30% of oxygen, 1,5 of moisture blast temperature 850°C top gas temperature 200°C % indirect reduction 60%, slag volume 0,7 t/t and Heat balances per 1 kg of pig composition as above.

Card 2/3

133-58-5-1/31

· Blowing

Reducing Gases Into the Blast Furnace Hearth pig at blast temperature 1100°C, degree of indirect reduction 70%, for atmospheric 25% and 30% oxygen enriched blasts and additions of natural gas are compared in Table 3. The ratio of the yield of the hearth gas to the total heat capacity of corresponding burden, assuming 40% direct reduction and with blowing in coke oven gas would be 3.54 whilst this ratio at present the Domnovat (Sweden) furnace is 4.4. The above comparison indicates that on blowing in coke oven gas and with a 30% oxygen enrichment this ratio may be insufficient. Therefore, to improve the heat balance charging of hot sinter will be necessary. There are 3 tables, 9 figures and 7 references, 4 of which are Soviet, 1 German, 2 English.

ASSOCIATION: TSNIICHM

Card 3/3

是这个人,我们就是这个人的,我们就是我们的人,我们们就是这个人的人,我们也不是这些人的人,我们也没有的人,我们也没有的人,我们就是我们的人,我们们也不是一个人的

Sov/133/58-9-3/29

AUTHOR: Shapovalov, M. A. (Cand. Technical Sciences)

TITLE: Technical Efficiency of Size Grading of Burden Materials
(Tekhnicheskaya effektivnost' rassortirovki domennoy shikhty
po krupnosti)

PERIODICAL: Stal , 1958, Nr 9, pp 780-781 (USSR)

ABSTRACT: The efficiency of utilization of the reducing and thermal capacity of the ascending gas in blast furnaces is discussed. It is pointed out that by a more uniform distribution of the gas stream in the furnace stack a considerable decrease in the coke rate can be obtained due to an increase in the protection of indirect reduction. As the most efficient method of improvement in the gas distribution, screening off of the of improvement in the gas distribution, screening off of the Pressure drop across a bed of sinter of various size distribution is shown in Fig.1. There is I figure and 4 references; 3 of the references are Soviet and I is English.

ASSOCIATION: TSNIIChM

Card 1/1

CIA-RDP86-00513R001548610004-2 "APPROVED FOR RELEASE: 08/23/2000

sov/67-58-4-1/29 Shapovalov, M. A., Candidate of Technical AUTHOR:

Sciences

Oxygen in Blast Furnace Casting TITLE:

(Kislorod v domennoy plavke)

Kislorod, 1958, Nr 4, pp. 1-11. (USSR) PERIODICAL:

This paper deals with processes of iron casting by using oxygen. and especially with the advantages offered by the process of air ABSTRACT:

blasting enriched with oxygen for the purpose of accelerating the process. In order to prevent layers of iron ore from getting stuck in the blast furnace (at the Movo-Tulisty metallurgical plant) furnaces with a conical profile and blowers having an increased moisture supply are used. Table 1 compares the output of furnace Nr 1 at Novo-Tull alt rith an American blast furnace having a volume of 1120 m2. The chapter: "The Casting of Ferro-Alloys" describes the advantages offered by blasting with oxygen as being of great importance. This is illustrated on the basis of a table in which results obtained by a blast furnace (Nr 5) of the

Voroshilov works by means of ordinary air blasting and those ob-

tained by blast furnace Nr 1 at Novo-Two skipby air blasting with Card 1/2

Oxygen in Blast Furnace Casting

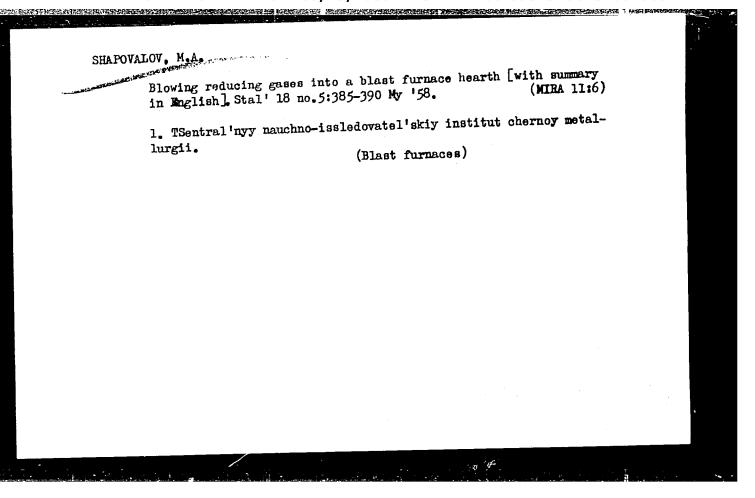
SOV/67-58-4-1/29

oxygen are compared (Table 1). The saving of time and coke is particularly marked in the latter case. In the chapter: "Iron Foundry in the Case of Blasting With a High Content of Oxygen" it is said that a high degree of enrichment with oxygen (30-35%) alone is not advisable, but that good results can be obtained by means of a simultaneous supply of regenerating gas (coke gas or natural gas with a high content of hydrogen). In this case large quantities of coke can be saved and production figures of the blast furnace can be considerably increased. There are 12 figures. 2 tables, and 15 references, which are Soviet.

Card 2/2

1. Iron—Production 2. Iron alloys—Casting 3. Blast

furnaces-Operation 4. Oxygen-Applications



The production of the function of the function

CIA-RDP86-00513R001548610004-2 "APPROVED FOR RELEASE: 08/23/2000

SHAPOUALOUM.A.
PHASE I BOOK EXPLOITATION SOV/2812

Akademiya nauk SSSR. Institut metallurgii

- Vyplavka ferrosplavov v domennoy pechi na dut'ye, obogashchennom kislorodom (Blast Furnace Production of Ferroalloys With Oxygeneriched Blast) Moscow, Izd-vo AN SSSR, 1959. 142 p. Errata slip inserted. 2,700 copies printed.
- Sponsoring Agency: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
- Resp. Ed.: L. M. Tsylev, Doctor of Technical Sciences, Professor; Ed. of Publishing House: A. N. Chernov; Tech. Ed.: Yu. V. Rylina.
- PURPOSE: This collection of articles is intended for scientific and industrial personnel working on the introduction of intensified blast-furnace production of ferroalloys. It may also be useful to students of institutions of higher technical education.
- COVERAGE: The articles in this collection present the results of investigations of blast furnace processes in the experimental production of ferroalloys, conducted at the Novo-Tul'skiy metallurgicheskiy zavod (Novo-Tul'skiy Metallurgical Plant). The Card 1/4

Blast Furnace Production (Cont.)

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3

first article discusses recent achievements in the production of ferroalloys in the Soviet Union. The other articles are concerned with such specific questions as the effect of oxygeneniched blast on coke consumption, the connection between bridging of the charge and slag composition, analysis of reduction processes, slag formation, and viscosity of blast furnace slags. On the basis of mineralogical study of materials, conclusions are drawn concerning the limits of distribution of solid, plastic, and liquid phases of materials at points along the height of the blast furnace shaft. The effect of the composition of charge materials and melting conditions on the nature of phase transformations is established. Measures are discussed for reducing dust losses and improving conditions for cleaning waste gas in the blast furnace production of ferroalloys. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

Bardin, I. P. Application of Oxygen in Ferrous Metallurgy

The author briefly outlines the developments in the application of oxygen blast in pig-iron and ferroalloy production in the USSR, beginning with the first experiments in 1932. Application on an industrial scale is still limited.

Card 2/4

SOV/2812		
ast Furnaces	8	
Zhilo, N. L, and L. M. Tsylev. On Reduction Processes, Slag Formation, and the Viscosity of Primary and Final Blast Furnace Slags in the Production of Ferroalloys With Oxygen- enriched Blast		
	17	
Blast Furnace	38	
rnace Production of	79	
ective. Productivity for ferromanganese ption of coke was reanganese produced, and		
	ast Furnaces on Processes, Slag and Final Blast oalloys With Oxygen- e Blast Furnace unace Production of showed the use of ective. Productivity for ferromanganese ption of coke was re- anganese produced, and omparison with figures	ast Furnaces 8 on Processes, Slag and Final Blast calloys With Oxygen- 17 e Blast Furnace 38 urnace Production of 79 s showed the use of ective. Productivity for ferromanganese ption of coke was re- anganese produced, and omparison with figures

Blast Furnace Production (Cont.)

SOV/2812

manner. Possibilities are said to exist for reducing the cost of oxygen by building high-output oxygen stations with steam-driven air compressors.

Gess-de-Kal've, B. A. Measures for Reducing Dust Losses and for Improving Conditions for Cleaning Waste Gas in the Blast Furnace Production of Ferroalloys

117

AVAILABLE: Library of Congress

Card 4/4

1-15-60 GO/ec

AUTHOR:

Sov/133-59-5-3/31 Shapovaley, M.A., Candidate of Technical Sciences

TITLE:

On the Causes of Burden Hanging During the Operation of Blast Furnaces with Oxygen-enriched Blast (0 prichinakh zavisaniya shikhty pri domennoy playke na ohogashchennom

dut'ye)

Stal', 1959, Nr 5, pp 393 - 396 (USSR) PERIODICAL:

ABSTRACT: These are remarks on the previously published paper on the subject by S.K. Trakalo (Stall, 1958, Nr 6). The original author stated that the hanging of the burden in the blast furnace during experimental operation on oxygen- enriched blast (Nove-Tell'skiy metallurgicheskiy zavod - Novo Tuliskiy Metallurgical Works) was caused by an increase in the gas velocity on the furnace periphery and the transfer of fines from the peripheral zone to the central zone of the furnace due to a high velocity of peripheral gas. The present author considers that the hanging was caused by the formation of a low-permeability layer of burden above the tuyere plane due to lowering of the slag formation zone and condensation of SiO and SiO2 vapour

(volatilised from ash on the surface of burning coke lumps).

Cardi/2

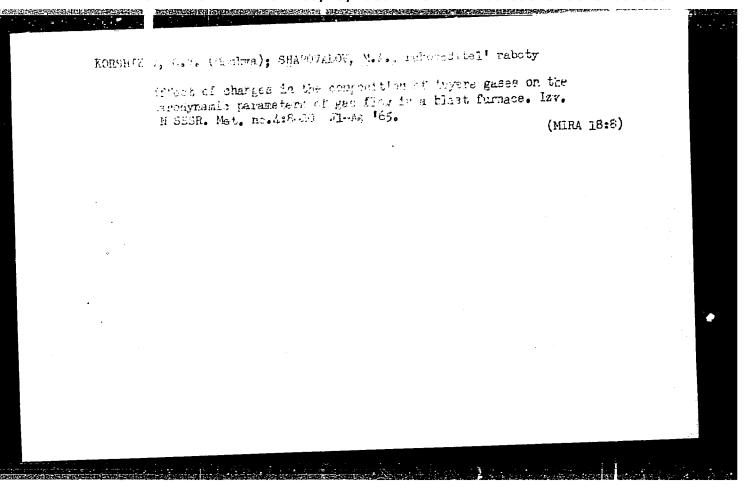
SOV/133-59-5-3/31 On the Causes of Burden Hanging During the Operation of Blast Furnaces with Oxygen-enriched Blast

In order to obtain a uniform burden descent when operating with an oxygen-enriched blast it is necessary (in addition to an appropriate size distribution of burden materials): 1) to improve the furnace profile by decreasing the height of the bosh: 2) to increase the number of tuyeres decreasing the distance between the tuyere axis to 1 m and, 3) to facilitate conditions of the formation of primary slag by decreasing its melting temperature and redistribution of temperatures along the height of the hearth and the bosh. It would be advantageous to blow into the hearth through the tuyeres powdered solid or liquid fuel and crushed lime. There are 4 figures and 4 Soviet references.

ASSOCIATION: TSNIIChM

Card 2/2

Some problems of blast firnace smelting with use of natural gas. Metallurg 5 no. 1:4-6 Ag '60. (MIRA 13:7) 1. TSentral 'nyy na hino-issledovatel'skiy institut chernoy metallurgii. (B) at furnaces—Equipment and supplies)



ROZENBERG, A. M., inzh.; SHAPOVALOV, M. A.

Track measuring cars check the position of the track according to the plan. Put' i put. khoz. 6 no.10:32-34 '62. (MIRA 15:10)

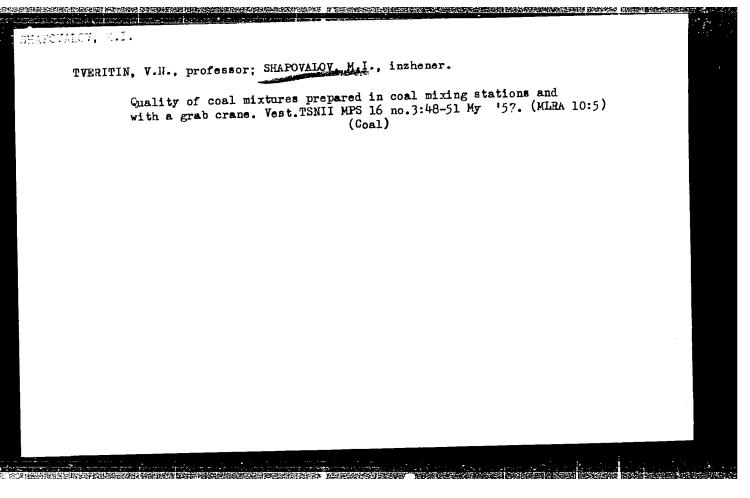
1. Nachal'nik tekhnicheskogo otdela sluzhby puti, Donetskaya doroga (for Rozenberg). 2. Nachal'nik vagona-puteizmeritelya, Donetskaya doroga (for Shapovalov).

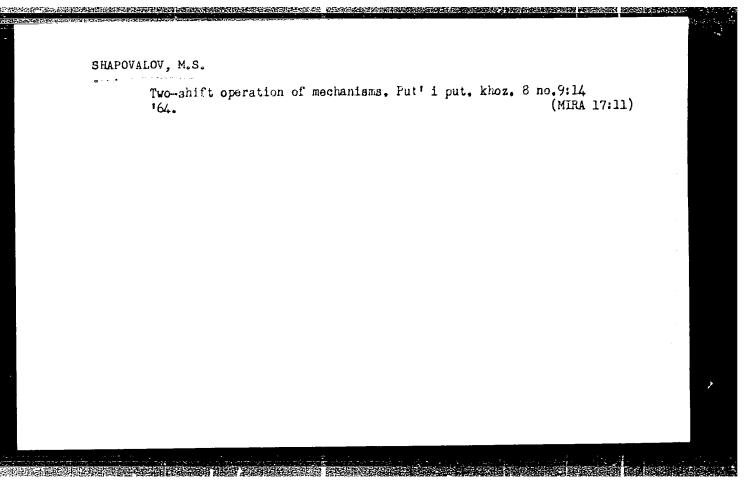
(Railroads-Track)

SHAPOVALOV, M.I.

Wedenskii inhibition in spinal cord synapses. Piziol. zh. SSSR Sechenov 49 no.6:685-694 163 (MIRA 17:1)

1. From the Department of Pharmacology, First Medical Institute, Leningrad.





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SHAPOVALOV, M.Yu; kand.med.nauk; BRUSILOVSKIY, A.I. [Brusylovs'kyi, A.I.]

Histochemical study of phosphatase and polysaccharides in the human chorion. Ped., akush. i gin. 23 no.3:54-56 '61. (MIRA 15:4)

1. Kafedra gistologii 1 embriologii (zav. - prof. B.P.Khvatov)

Krymskogo meditsinskogo instituta (direktor - dotsent S.I.Georgiyevskiy [Heorhiievs'kyi, S.I.]).

(CHORIOH) (POLYSACCHARIDES) (PHOSPHATASE)
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SHAPOVALOV, N.

- . Gear box for the RZ-30 gear pump. Neftianik 9 no.9:33-34 S 164 (MIRA 18:2)
 - 1. Direktor Protokskoy neftebazy.

CIA-RDP86-00513R001548610004-2 "APPROVED FOR RELEASE: 08/23/2000

11/11/11/11/11

137 - 1957 - 12 - 23259

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 58 (USSR)

Shapovalov, N. A. AUTHOR:

Operational Experience With KU-80 Recovery Boilers (Opyt TITLE:

ekspluatatsii kotlov-utilizatorov KU-80)

V sb.: Kotly-utilizatory martenovsk. pechey. Moscow, PERIODICAL:

Metallurgizdat 1957, pp 38-47

KU-80 boilers having average and maximum steam generat-ABSTRACT:

ing capacities of 8.3 t/hr and 12-13 t/hr, respectively, were installed at the "Azovstal" plant to operate with open-hearth furnaces

having a capacity of 350 t. Exhaust fans ensure the passage of all flue gases through the boilers by creating sufficient draft for the Martin furnaces. After 5-6 days' operation of the boiler, the temperature of the flue gases upstream of the minust increases from 200 to 300° , and the gas resistance increases from 110 to 140 mm H₂O. The washing of the boiler by hand

is very inconvenient and necessitates a one-day stoppage of the operation. With all the gases passing through the boiler the cost of the steam is 7 rubles per ton, which is half the cost of the steam

generated at the TETs of the plant. The electrical energy consump-Ye. N.

tion is 20-25 kw/t. Card 1/1

1. Boilers-Oper tion

CIA-RDP86-00513R001548610004-2"

APPROVED FOR RELEASE: 08/23/2000

SHAPOVALOV, N.A., inzh.; STANTSEL', I.P., inzh.

Experience in operating recuperators of open-hearth furnaces and ways for improving their performance. Biul. TSNIIGHM no.22:20-24 (MIRA 11:5)

157. (Open-hearth furnaces)

Utilization of secondary power resources in Ukrainian metallurgical plants. Trudy NTO chern. met. 20:94-61 '60. (MIRA 13:10)

1. Gosplan USSR. (Ukraine--Metallurgical plants)

KHRIPKO, Ye.G.; ADRIANUVA, V.P.; SHAPOVALOV, N.A.

Use of natural gas in ferrous metallurgy. Izv. vys. ucheb. zav.; chern.
met. 5 no.9:5-9 '62.

(Iron and steel plants)

(Gas, Natural)

SEREDENKO, M.N.; SHAPOVALOV, N.A.; KALITA, N.S.

Potentialities for greater efficiency in the use of fuel and power resources in ferrous metallurgy. Stal' 22 nc.9: 850-852 S '62. (MIRA 15:11)

1. Institut ekonomiki AN UkrSSR i Ukrainskiy sovet narodnogo khozyaystva.

(Metallurgical furnaces—Combustion)

Metallurgical furnaces——Combustion, (Heat regenerators)

5.

SHAPOVALOV, N.A., inzh.; SHEPETUKHA, M.G., inzh.; DYMSHITS, M.A., inzh.; SOLODKIY, Z.P., inzh.

4. 化共享设置 1. 计算量 1. 计算量 1. 计算量 1. 计算量 1. 计数据 1. 计算量 1. 计算

Organizing the repair and modernization of industrial equipment in the enterprises of the Ukrainian S.S.R. Mashnistroenie no.6s 5-3 N-D *64 (MIRA 18:2)

POLFTAYEV, B.L.; RESHETNYAK, I.S.; SHAPOVALOV, N.A.; SOROKIE, A.A.

Using an accumulative seramic recuperator in soaking pits at the Dzerzhinskii Plant. Stal' 24 no.2:180-181 F '64. 'MIRA 17:9'

1. Zavod im. Dzerzminskogo i Eneprodzerzhinskiy metallurgichaskiy zavod-vtuz.

ANDREYEVA, Vera Mikhaylovna; POPOV, K.M., doktor ekon. nauk, otv.
red; LAVRENT'YEVA, Ye.V., red.; SHAPOVALOV, N.S., mlad.
red.; MAL'CHEVSKIY, G.N., red.kart; Andreva, M.T.,
tekhn. red.

[New Zealand; economic geography] Novaia Zelandiia; ekonomiko-geograficheskaia kharakteriatika. Moskva, Geografgiz,
nomiko-geograficheskaia charakteriatika. Moskva, Geografgiz,
(MIRA 16:8)

1963. 334 p.
(New Zealand--Economic geography)

ASOYAN, Nadezhda Samiilovna; POPOV, K.M., doktor ekon.nauk, prof., otv.red.; GORNUNT, M.B., kand. geogr.nauk, otv.red.; DEREVYANKINA, L.A., red.; SHAPOVALOVA, N.S., mlad. red.; VAS'KINA, R.S., tekhn. red.

[Nigeria; characteristics of its economic geography]
Nigeriia; ekonomiko-geograficheskaia kharakteristika.
Moskva, Geografgiz, 1963. 270 p. (MIRA 17:2)

SHAPOVALOV, 0.M.

Practice of using the induced polarization method. Razved. 1 okh.

(MIRA 15:3)

nedr 27 no.12:35-42 D '61.

1. Chelyabinskiy geologorazvedochnyy trest.

(Chelyabinsk Province--Electric prospecting)

SHAPOVALOV, C.P., inzh.

Apparatus for automatic braking of trailers. Makh. sil'. hosp. 14, no.7:11 Jl '63.

(MIRA 17:2)

Reasons f maintaini	Reasons for silting of the Zhdanov Navigation Canal and measures for maintaining its depth. Trudy Okean. kom. 2:10-23 '57. (MLRA 10:9)		
1. Upravl	eniye Azovmorputi. (Zhdanov	CanalSilt)	
		·	

BRYUM, Abran Isayevich, inzh.; VORONOV, Petr Andreyevich, dotsent, kand.
tekhn.nauk [deceased]; GINSBARG, Ruvin Izrailevich, kand.tekhn.nauk;
KUTEYNIKOV, Aleksandr Nikolayevich, inzh.; FEDOROV, Aleksandr
Timofeyevich, prof. [deceased]; SHAPOVALOV, Petr Borisovich, inzh.;
SHIKHIYEV, Fued Maksimovich, dotsent, kand.tekhn.nauk; YAVIEHSKIY,
S.D., retsenzent; KRUGLENKO, N.K., retsenzent; MATLIN, G.M., kend.
tekhn.nauk, red.; KSENOFONTOVA, Ye.F., red.izd-va; TIKHONOVA, Ye.A.,
tekhn.red.

[Sea ports and harbor facilities] Morskie porty i portovye sooruzheniia. Moskva, Izd-vo "Morskoi transport," 1959. 519 p. (MIRA 12:12)

(Harbors)

SHAPOVALOV, P.B

Measures for combating silt deposits in sea channels. Mor. flot.19 no.4:18-20 Ap '59. (MIRA 12:6)

1. Nachal'nik normativno-issledovatel'skikh i`izyskatel'skikh rabot Azovo-Chernomorskogo upravleniya morskikh putey.

(Harbors) (Shore protection)

SHAPOVALOV, Petr Borisovich; SMIRNOV, G.S., retsenzent;
SKOBZING, L.V., red. izd-ve; LAVRZHOVA, N.B.
tekhn. red.

[Ship canals end channels and the bucyage of waterways]
Morskie kenaly i navigatsionnate obstanovka morskikh putei.
Moskva, Izd-vo "Morskoi transport." 1960. 204 p.

(Waterways) (Buoye)

(Waterways) (Buoye)

ACC NR: AP6036350

SOURCE CODE: UR/0381/66/01 /004/0091/0093

AUTHORS: Arustamov, G. A.; Malyshko, I. M.; Danilov, V. P.; Shapovalov, P. F.

ORG: VNIINK, Kishinev

TITLE: New ultrasonic defectoscopes DUK-11IM and DUK-13IM for quality control of welded joints

SOURCE: Defektoskopiya, no. 4, 1966, 91-93

TOPIC TAGS: weld defect, ultrasonic inspection, ultrasonic flaw detection, defectoscope/ DUK-11TM defectoscope, DUK-13TM defectoscope

ABSTRACT: Defectoscope models DUK-11IM and DUK-13IM, developed by VNIINK for either portable or production operation in quality control of welded joints, are described. The model 11 is packaged in one unit (197 x 278 x 330 mm, 9.8 kg), while the model 13 consists of three interconnected units (the defectoscope - 110 x 233 x 274 mm, 4 kg; the power supply and the accumulator power supply - unspecified size). Both models operate at 1.8 and 2.5 Mc, have a minimum sensitivity of 2 mm² (equivalent area of defect), and have straight and slanted detector heads (to introduce waves at 30, 40, and 50°). The model 11 has a maximum penetration of 750 mm (in steel) and the model 13 has 600 mm. Both are equipped with electronic depth meters to pinpoint the defect coordinates. Schematic diagrams of the operational blocks of the defectoscopes are presented, and prices of the defectoscopes are given. Orig. art. has: 4 figures and 1 table.

SUB CODE: 13/ SUBM DATE: 14Mar66

Card 1/1

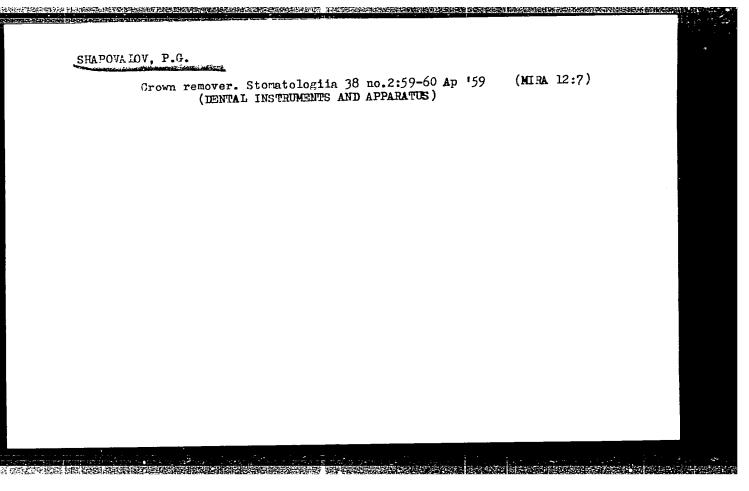
UDC: 620.179.16

SVETLOY, A.I., red.-sostsvitel', Prinimali uchastiye: GOLOVANOY, S.I.;
GONOROVSKIY, P.A.; DOBRYNIN, M.I.; YERMILOY, Ye.M.; KORNETEY, S.G.;
KULAKOVA, A.K.; KURBATOY, I.A.; LYKOY, Y.N.; MARTYNOY, B.F.;
MILOSERDOY, S.S.; PESIKOY, Y.P.; SOKHRANSKIY, A.T.; SMUROY, A.Ys.;
TOPALOY, Y.S.; SHAPOVALOY, P.F.; POPOY, Y.N., tekhn.red.

[City on the TSna] Gorod na TSne. Tambov, Tambovskoe knizhnoe
izd-vo, 1960. 174 p.

(Tambov--Guidebooks)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548610004-2"



BOROVIK, L.I.; PEDOS, I.F.; PIMENOV, A.F.; SHAPOVALOV, P.P.

Dependence of the sheet profile on the roll grooving. Metallurg 9 no.7:28-29 Jl '64. (MIRA 17:8)

1. Novolipetskiy metallurgicheskiy zavod.

SHAPOVALOV, F. T.

Field Crops

Stubble soming inthe beet-seeding region. Korm. baza 3 no. 6, 1952

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

SHAPOVALOV, P. T.

"Green Crop Rotation in Zones of Sugar Beet Cultivation." (Dissertation for Degree of Candidate for Agricultural Sciences) Min Higher Education USSR, Ukrainian Order of Labor Red Banner Agricultural Academy, Kiev, 1955

SO: M-1036 28 Mar 56

SHAPOVALOV, P.T. kandidat sel'skokhozyaystvennykh nauk.

Creating a feed supply in the forested steppe of the Ukraine. Zemledelie 5 no.4:24-31 Ap 157. (MIRA 10:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly.

(Ukraine -- Feeding and feeding stuffs)

C.No.: 1/2

KUTSAK, I.M. agronom: ZELIESKIY. a.A. [Zelins'kyi, A.A.]; SHAPOVALOV, P.T.; KLYAVIR, I.Yu.

Over-all mechanization of sugar beet growing. Mekh. sil'. hosp. 9
no.1:18-21 Ja '58. (MIRA 11:2)

1. Kolgosp im. Chapayeva, Zhashkivs'kogo rayonu, Cherkas'koi oblasti (for Kutsak). 2. Vsesoyuzniy naukovo-doslidniy institut tsukrovikh buryakiv (for Zelins'kiy, Shapovalov, Klyavir).

(Sugar beets) (Agricultural machinery)

STOGNIY, I.I.; BOVSUNOVSKIY, A.I.; SHAPOVALOV, P.T., nauchnyy sotrudnik; KUDARENKO, F.F., nauchnyy sotrudnik; ZELINSKIY, A.A, nauchnyy sotrudnik; SOROCHINSKAYA, N.F., nauchnyy sotrudnik

Farm management system on sugar best growing collective farms. Zemledelie ? no.12:21-29 D 159. (MIRA 13:3)

1. Predsedatel' kolkhoza imeni Lenina Zhashkovskogo rayona (for Stogniy). 2. Inspektsiya po sel'skomu khozyaystvu Zhashkovskogo rayona (for Bovsunovskiy). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly (for Shapovalov, Kudarenko Zelinskiy, Sorochinskaya).

(Sugar beets) (Collective farms)

SHAPOVALOV, P.T.; ZELINSKIY, A.A.; KUTSURUBA, N.V.; KUDARENKO, F.F.; GRIGOR'YEVA, A.I., red.; DEYEVA, V.M., tekhm. red.

本主义的社会文化,也是主义是是,这种企业,在中国的企业,在中国的企业的企业,在中国的企业的企业,在中国的企业,在中国的企业,在中国的企业的企业,在中国的企业的企

[New technology for cultivating monospermous sugar beets]Vozdelyvanie odnosemiannoi sakharnoi svekly po novoi tekhnologii. Moskva, Sel'khozizdat, 1962. 94 p. (MIRA 15:12) (Sugar beets)

BOVSUNOVSKIY, A.I.; SHAPOVALOV, P.T., kand. sel'skokh. nauk

Intensive system of agriculture in action. Zemledelie 25 no.6:13-20 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly. 2. Glavnyy agronom Zhashkovskogo proizvodstvennogo upravleniya, Cherkasskaya oblast' (for Bovsunovskiy).

(Zhashkov region—Agriculture)

BUZANCV, I.F.; SAMBUROV, V.I.; YEMETS, G.M.; ORLOVSKIY, N.I.;

NEGOVSKIY, N.A.; FEDOROV, A.I.; GREKOV, M.A.; KURBATOV,

S.T.; MEL'NICHUK, A.N.; TONKAL', Ye.A.; GORNAYA, V.Ya.;

ROZHDESTVENSKIY, I.G.; SIDOROV, A.A.; KUDARENKO, F.F.;

BROVKINA, Ye.A.; GELLER, I.A.; DOBROTVORTSEVA, A.V.;

VARSHAVSKIY, B.Ya.; KUTSURUBA, N.V.; KUZ'MICH, S.I.;

PRESNYAKOV, P.V.; USHAKOV, A.F.; SHEVCHENKO, V.N.;

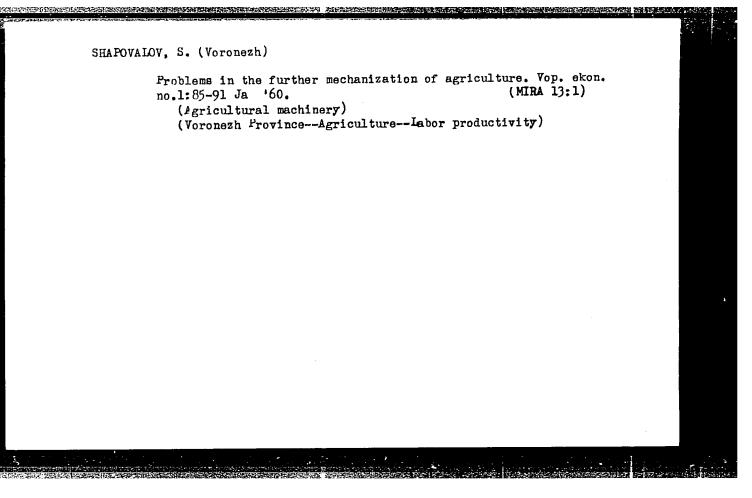
KHUCHUA, K.N.; PETRUKHA, Ye.I.; POZHAR, Z.A.; SHAPOVALOV,

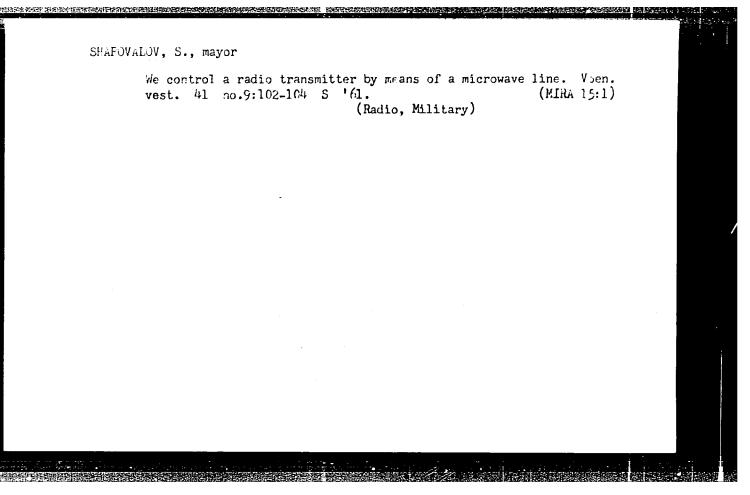
P.T.; AREF'YEV, T.I.; GRIGOR'YEVA, A.I., red.; BALLOD,

A.I., tekhn. red.

[Sugar beets] Sakharnaia svekla. Moskva, Sel'khozizdat, 1963. 487 p. (MIRA 16:11)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly. 2. Nauchnyye sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta sakharnoy svekly (for all except Grigor'yeva, Ballod). (Sugar beets)





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CIA-RDP86-00513R001548610004-2

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5/018/61/000/001/003/005 A110/A026

6.1300

AUTHOR:

Shapovalov, S., Major

TILE:

Automatically Controlled Radio Stations

PERIODICAL: Toyennyy yestnik, 1961, No. 1. pp. 104 - 105

A detailed description is given on now to transform a radio telegraphic station to a radio telephonic receiver and transmitter using remote control (see Figure). It serves for the control of the oscillations of the transmitter P-104 E-104) during telephone and telegraph communications with the radio station, and for reception of transmissions on the microtelephone tube. With this equipment the radio station can automatically be switched over to transmit and/or receive telephone communications. The remote control set consists of a telegraphic transmitter, a TAN-43P (M) [TAI-43P (m)] telephone with a headphone and the TAIL-TAP (MIG-TLE) switch. The Π_1 (F1) switch being in position TLE, the 2.4 \vee current goes from the batteries through the channel of the N_1 (L1) valve and the #100 v current, passing the P-277 (R-277) relay and the primary winding of the TP-1 (Tr-1) transformer, enters the anode of the valve; 120 v current from P-104 (R-104) enters $\Gamma_{H_{\frac{1}{2}}}$ ($e_{\pi_{1}}$) and that from the potentiometers E_{1} and E_{3} goes

Card 1/3

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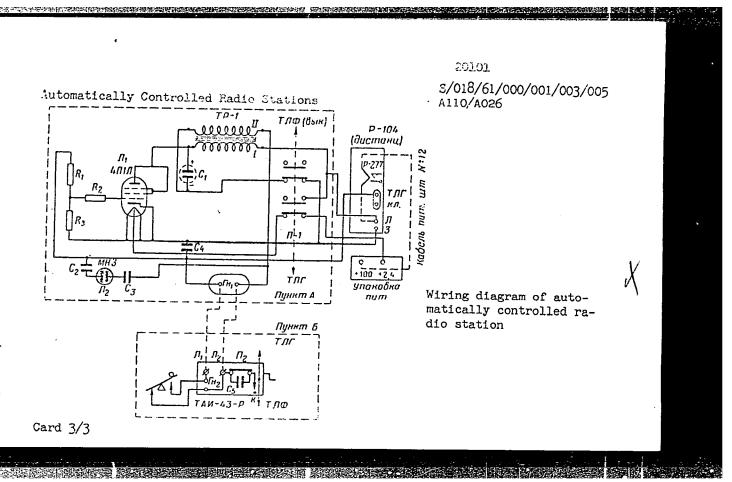
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S/018/61/000/001/003/905 A110/A026

Automatically Controlled Radio Stations

to the control grid of the Value L_1 plosing it. To centrol the paciliations of the transmitter directly from the radio station, the telegraphic transmitter is switched to g_{11} while the radio station is switched to the remote control. The switch "reception—transmitting" is im position "reception". At switching on the telegraphic transmitter, the LYD v current is connected to the mass and the value L_1 and the power amplifier of the transmitter are opened. The current passing the value L_1 enters the relay R-277 and switches the station to transmission. The capacity of the condenser C_1 (S_1) permits the opening of the relay R-277, I see after stopping the transmission at which moment the radio station switches to reception. For assembling its remote control the following resistances were used: $E_1 = 500$ kebm. $E_2 = 60$ kebm, $E_3 = 100$ kebm and the condensers: $C_1 = 20.70$ MC, $C_2 = 0.3$ MC, $C_3 = 0.05$ MC, a transformer with 2 windings at 2,000 scients of 0.01 diameter. There is 1 figure.

Card 2/3



KAMENSHCHIKOV, I , podpolkovnik; SHAPOVALOV, S , starshiy inzh.-leytenant

Assembly of a bridge from authorized items of issue.
Tyl i snab. Sov. Voor. Sil 21 no.ll:68-70 N '61. (MIRA 15:1)

(Military bridges)

SHAPOVALOV, S.A.

"Economics of the production and distribution of motionpicture films in the U.S.S.R" by IU.A.Kalistratov.

Tekh.kino i telev. 4 no.8:89-92 Ag '60.

(MIRA 13:8)

(Motion pictures—Distribution)

(Motion picture industry)

SHAPOVALOV, S. I.

Improving organization in filling tank with petroleum products.
Zhel.dor.transp. 42 no.8:79 Ag '60. (MIRA 13:8)

1. Zamestitel' nachal'nika gruzovoy sluzhby Kuybyshevskoy dorogi, g. Kuybyshev.

(Petroleum products--Transportation)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548610004-2"

SHAPOVALOW, S. I.

SHAPOVALOV, S. I. — "A Study of the Effects of Modification, Temperature of Heating, and Chemical Composition of Cast Iron on the Structure and Stability of Casting Molds." Min Higher Education USSR. Donets Order of Labor Red Banner Industrial Inst imeni W. S. Krushchev. Stalino, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SOURCE Knizhnaya Lebecis' No 6 1956

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548610004-2"

APANTAL TO COLOR OF THE MARKET STATES OF THE COMPANY OF THE COLOR OF THE COLOR

AUTHOR:

Braynin, I. Ye. and Shapovalov, S.I.

TILIE:

Influence of the degree of vacuum and of the temperature of overheating on the structure of iron. (Vliyanie vakuuma i temperatury peregreva na strukturu chuguna.)

PERIODICAL: 'Fizika Metallov i Metallovadania!' (Physics of Metals and Metallurgy), 1957, Vol.IV. No.1 (10), pp.115 - 122 (U.S.S.R.)

ABSTRACT:

For studying the influence of vacuum and of the overheating temperature of liquid iron on its structure conical specimens weighing 200 g of the following chemical composition were produced by casting from cupola iron: 3.68% C; 1.50% Si; 0.63% Mn; 0.072% P and 0.078% S. The specimens were re-molten in magnesite and graphite crucibles of 36 mm inner dia. and 50 mm height. It was found that at high over-heating temperatures of the liquid iron in the magnesite crucibles inside a reducing atmosphere $(CO + N_2)$ the sulphur content is lowered considerably and the active iron oxides on the surface are reduced. Consequently, the surface tension at the inter-phase boundary liquid melt - graphite increases, which brings about a crystallisation of the graphite in the form of a super-cooled graphite eutectic. Production of globular graphite without modification additions by over-heating the melt to 1700 - 1800 C in a reducing atmosphere indicates that the formation of globular graphite is due to an increase in the surface tension of the inter-phase boundary melt-graphite. An

Influence of the degree or vacuum and of the temperature of over-heating on the structure of iron. (Cont.)

increase in the surface tension at the boundary liquid meltgraphite as compared to the tension at the boundary liquid melt-austenite leads to the formation around the graphite separations of a continuous austenite shell. Further growth of the graphite separations takes place in a uniform medium and is determined by the character of removal of the iron ions from the crystallisation front of the graphite and this leads to the formation of globular graphite. A decrease in the dimensions of the graphite particles is brought about by an increase in the degree of over-heating of the liquid iron, re-melting in vacuum and reduction of the sulphur content; these factors cause an increase in the surface tension at the boundary liquid melt-grahite and favour crystallisation of the iron under conditions of super-cooling. These phenomena explain the formation of globular graphite without any inoculations in the case of over-heating of iron with traces of sulphur to 1 700 °C in a reducing atmosphere. The authors consider it advisable to carry out tests under shop conditions for producing high strength spheroidal iron with inoculations by over-heating the melt in an electric furnace inside a reducing atmosphere which would lead to a reduction of the oxides dissolved in the iron and sulphur removal. 2 tables, 5 figures. 7 references, 3 of whichare Russian.
Donets Industrial Inst. imeni Recd. January 16, 1956.
N.S. Krushchev. After revision recd. Apr After revision recd.Apr.4,1956.

CIA-RDP86-00513R001548610004-2 "APPROVED FOR RELEASE: 08/23/2000

AUTHOR:

BRAYNIN, I.Ye., SHAPOVALOV, S.I.

32-6-39/54

TITLE:

The Selection of Cast Iron Samples. (O Metodike otbora prob chuguna,

Russian)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 6, pp 750-751 (U.S.S.R.)

ABSTRACT:

For the chemical analysis of cast iron samples the latter are taken in a depth of 200-300 mm from the surface. For white pig iron wedge-shaped samples are taken for bleaching. According to the temperature of the samples taken they were divided into three groups: I = at 1220 - 1240°, II = 1245 - 1265° and III = 1270 -

1290°

The chemical composition of all three groups was the same and corresponded to the graphitization constant 5,75. The average depth of bleaching was for the I. group - 5,63 - 5,94 mm, for the II. group - 4,60 - 6,51 mm, and for the III. group 3,90 - 7,06 mm. This shows that with an increase of the temperature of the white pig iron the bleaching depth of the wedge-shaped samples is reduced to

3,9 mm.

The second table shows the content of admixtures in cast iron samples at 1240°, 1260° and 1280°, which shows that for the first group 1.54-1,58% silicon, 1,56% for the II. group, and 1,58% silicon

Card 1/2

CIA-RDP86-00513R001548610004-2 "APPROVED FOR RELEASE: 08/23/2000

SOV/128-58-12-10/21

AUTHORS:

Braynin, I.Ye., and Shapovalov, S.I.

TITLE:

The Effect of Liquid Cast Iron Temperatures on the Depth of Chilling in V-Shaped Specimens (Vliyaniye temperatury zhi-

dkogo chuguna na glubinu otbela klinovidnykh prob)

PERIODICAL:

Liteynoye proizvodstvo, 1958, Nr 12, pp 19 - 20 (USSR)

ABSTRACT:

To determine the effect of liquid cast-iron temperatures inside the cupola trough on the depth of chilling in V-shaped specimens, two series of tests were carried out by D.S. Kirin, V.A. Kharchenko and G.Ye. Rybalko. Liquid cast iron was taken from the surface of the ladle, and from a depth of 200 - 250 mm, at temperatures ranging from 1,220 to 1,290°C. A comparison of the results proved that the effect of the temperature on chilling was different in both series, i.e. that higher temperatures caused an increased chilling depth. If the cast iron is taken from a certain depth of the ladle, the depth of chilling in V-shaped spe-

Card 1/2

CIA-RDP86-00513R001548610004-2" APPROVED FOR RELEASE: 08/23/2000

SOV/128-58-12-10/21

The Effect of Liquid Cast Iron Temperatures on the Depth of Chilling in V-Shaped Specimens

cimens increases with higher temperatures of the cast iron in the trough. There are 2 tables, 1 diagram, 1 photo and 3 references, 1 of which is German and 2 Soviet.

 $C_{a}rd 2/2$

30V/163-59-2-14/48 Influence of Graphit by Biquid/Iron (Vliyaniye magniya na Moistening of Graphit was grafita zhidkim chugunom) kravevov ugol smachivaniya grafita zhidkim chugunom Braynin, I. Ye., Shapovelov, S. I. Moistening of Graphit by Liquid/Iron (Vilyaniye magniy grafita zhidkim chugunom) krayevoy ugol smachiveniya grafita zhidkim chugunom) PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1359, Nr 2, pp 74-77 (USSR) 18(3) AUTHORS: The mechanism of the influence of magnesium on the formation of the influence of magnesium on the formation of the influence of magnesium on the formation of the mechanism of the influence of magnesium on the formation of the magnesium of the influence of magnesium on the formation of the magnesium of the influence of magnesium on the formation of the influence of magnesium of the magnesium of magnesium of the ma The mechanism of the influence of magnesium on the format of globular graphite has not yet been fully clarified. A TITLE: rew years ago, it was found (Ref 6) that the surface tension is by 40-50% higher cast iron is by 40-50% higher cast iron is by 40-50% higher of the liquid ordinary cast iron. There are no publication than that of ordinary cast iron. The extra the title. The extra than that of the influence mentioned in the title. than that of ordinary cast from There are no publication The exreferences on the influence mentioned in the title. The exreferences on the influence mentioned in the title. The exreferences on the influence mentioned in the title. The exreferences on the influence mentioned of cast iron which con references on the influence mentioned in the title. The experiment was carried out with samples of cast iron which temperature that the samples were exposed to a temperature of the samples of the samples were exposed to a temperature of the samples of the samples were exposed to a temperature of the samples of the sampl periment was carried out with samples of cast from which tem-tained 0.06% of magnesium. The samples were exposed to a 7 mm tained 0.06% of of or various periods of time; cylinders 7 perature of 1350 for various periods of them. They high with a diameter of 7 mm were then cast of them. ABSTRACT: perature or 1500 for various periods of time; cylinders (They high with a diameter of 7 mm were then cast of horizontal high heated over the melting point on an exactly horizontal high heated over the melting point on an exactly horizontal high heated over the melting point on an exactly horizontal high heated over the melting point on an exactly horizontal high heated over the melting point on an exactly horizontal high heated over the melting point of time; cylinders (The melting periods of the melting periods of the melting periods of the melting periods (The melting periods of the melting periods of the melting periods of the melting periods (The melting periods of the melting periods of the melting periods of the melting periods (The melting periods of the melting periods of the melting periods of the melting periods (The melting periods of the melting periods of the melting periods of the melting periods (The melting periods of the melting periods of the melting periods of the melting periods (The melting periods of the meltin high with a diameter of 7 mm were then cast of them. They horizontal were heated over the melting point on an exactly horizontal them heated over the melting point on an exactly horizontal were heated over the melting point on an exactly horizontal table shows araphite plate. were heated over the melting point on an exactly horizontal shows table shows the melting point on an exactly horizontal table shows the table shows the temperature of 1350 the boundary graphite plate, and then cooled temperature of and the boundary that after a long action of the to oxidation, and the boundary that after a long action due to oxidation, and the horizontal shows the same point on an exactly horizontal shows the same point of t S Card 1/2 Card 2,

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548610

ERAYNIN, I.Ye., prof.; SHAPOVALOV, S.I., kand.tekhn.nauk.

Characteristics of floc formation in hypereutectoid steel.

Izv.vys.ucheb.zav.; chern.met. 2 no.6:81-82 Je '59. (MIRA 12:1)

1. Donetskiy industrial'nyy institut. Rekomendovano kafedroy metallovedeniya i termoobrabotki Donetskogo industial'nogo instituta.

(Steel--Metallography)

BRAYNIN, I.Ye. (Stalino); SMOLTANITSKIY, Ya.A. (Stalino); SHAPOVALOV, S.I. (Stalino)

Effect of artificial aging on the graphitization of white cast iron. Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.1:49-54 Ja-F '61. (MIRA 14:2)

(Cast iron—Metallurgy) (Annealing of)

SHVARTSER, A.Ya., inzh.; SHAPOVALOV, S.I., kand.tekhn.nauk; LUGOVAYA, G.V., inzh.; GLAZUNOV, F.A., inzh.; TKACHENKO, V.A., inzh.; MOZNAIM, G.I., inzh.

THE SEAL STREET, WHEN THE PROPERTY OF THE PROP

Electric slag hard facing of beaters in impact-action crushing machines. Svar. proizv. no.3:22-25 Mr '63. (MIRA 16:3)

- 1. Donetskiy politekhnicheskiy institut (for Lugovaya).
- 2. Yasinovatskiy mashinostroitel'nyy zavod (for Moznaim).
 (Hard facing) (Crushing machines)

BRAYNIN, 1. Ye.; SMOLYANITSKIY, Ya. A.; SHAPOVALOV, S. 1.

Effect of preliminary heat treatment on the graphitization process of white cast iron. Izv. vys. ucheb.zav.; chern.met. 7 no. 5:130-134 '64. (MIRA 17:5)

1. Donetskiy politekhnicheskiy institut.

_SHAFOVALOV, S.I., dotsenv, kand. tokhm. nauk; STYCHINSKIY, L.F., inch.; ALIMOV, V.I., inzh.

Effect of patenting wire rod from the rolling temperature on the mechanical properties of wire. Stal' 25 no.6:570-572 Je '65.

(MIRA 18:6)

1. Donetskiy politekhnicheskiy institut i Makeyevskiy metallurgicheskiy zavod.

SHAPOVALOV, S.1., kuno. tekhn. nauk; ZOLOTAPEVSKIY, D.B., Inzh.; SHVARTSER, A.Ya., kand. tekhn. nauk

Preventing the separation of the facing layer from the base metal in electric slag hard facing of high-manganese on low-carbon steels. Svar. preizv. no.6:3-5 43 165. (1214 12:8)

· 1. Denotakiy politekhnicheskiy institut.

SHAPOVALOV, S.L., vrach

Faulty vision and glasses. Zdorov'e 6 no.10:18-19 0 '60.

(MIRA 13:9)

(VISION) (SPECTACLES)

SOV/124-57-5-6013

Translation from: Referativnyy zhurnal. Mekhanika, 1957. Nr 5, p 144 (USSR)

AUTHOR: Shapovalov, S. M.

TITLE Analysis of Frame Structures by the Moment-foci (Fixed-point)

Ordinate Method (Raschet ramnykh konstruktsiy metodom moment-

nykh fokusnykh ordinat)

PERIODICAL: Nauch. zap. L'vovsk. politekhn. in-ta, 1955, Nr 29, pp 22-49

ABSTRACT: The author proposes a graphic method for analyzing frames, a method

whereby the moments acting upon the frame joints serve as the unknowns and a frame clamped at the joints serves as the reference system. The analysis procedure consists in determining first the

moment foci (fixed points) and then the moment-foci ordinates.

A. A. Popov

Card 1/1

SOV/124-57-8-9525

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 8, p 135 (USSR)

AUTHOR:

Shapovalov, S. M.

TITLE:

Calculating the Stability of Framed Structures by the Moment-fociordinate (Fixed-point) Method (Raschet ustoychivoy prochnosti ramnykh konstruktsiy metodom momentnykh fokusnykh ordinat)

PERIODICAL: Nauchn. zap. L'vovsk. politekhn. in-t, 1956, Nr 41, pp 17-34

ABSTRACT:

Bibliographic entry

Card 1/1

KURYLLO, Adam, prof. dr inz.; MAMONTOW, Mikolaj, doc. knt; SZAPOWALOW,
 Sergiusz, doc. knt

Prestressed shell construction of reinforced prefabricated concrete
 elements as roofing for industrial buildings. Inz i bud 20
 no.5:156-159 My '63.

1. Politechnika, Lwow.

SHAPOVALOV, T. I.

35271. Opyt primeneniya betononasosa pri postroyke zhelzobetonnogo otstoynika. Trudy IV vsesoyuz. Konf-tsii po beton i zhetezobeton konstruktsiyam. Ch. I. M.-L., 1949, S. 324-28

SO: Letopis' Zhurnal'nykh Statey. Vol. 34, 1949 Moskva

BURYKH, Yo.B; KOLOBOV, V.M.; SKOTNIKOV, Yu.A.; TIKHONOVICH, S.S.;
SHAPOVALOV: T.I.; KOMOVALOVA, K.A., redaktor; RAZINKOV, P.,
redaktor; LIL'TE, A., tekhnicheskiy redaktor

[Memorable places in Moscow province; brief guide] Pamiatnye mesta
Moskovskoy oblasti. Kratkii putevoditel'. Moskva, Isd-vo "Moskovskii
rabochii, 1954. 352 p. (MIRA 7:10)

1. Direktor Moskovskogo oblastnogo krayevedcheskogo museya (for
Konovalova)

(Moscow Province--Description and travel)

AGAPOV, D.S.; ARTIBILOV, B.M.; VIKTOROV, A.M.; GINTS, A.N.; GOR'KOV, A.V.; GUSYATINSKIY, M.A.; KARPOV, A.S.; KOLOT, I.I.; KOMARKVSKIY, V.T.; KORYAGIN, A.I.; KRIVSKIY, M.N.; KRAYNOV, A.G.; NESTEROVA, I.N.; OBES, I.S., kandidat tekhnicheskikh nauk; SOSNOVIKOV, K.S.; SUKHOT-SKIY, S.F.: CHLENOV, G.O.: YUSOV, S.K.: ZHUK, S.Ya., akademik, glavnyy redaktor; KOSTROV, I.N., redaktor; BARONKNKOV, A.V., professor, doktor tekhnicheskikh nauk, redaktor; KIRZHNER, D.M., professor, doktor tekhnicheskikh nauk, redaktor; SHESHKO, Ye.F., professor, doktor tekhnicheskikh nauk, redaktor; AVERIN, N.D., inzhener, redaktor [deceased]; GOR'KOV, A.V., inzhener, redaktor; KOMAREVSKIY, V.T., inzhener, redaktor; ROGOVSKIY, L.V., inzhener, redaktor: SHAPOVALOV, T.I., inzhener, redaktor; RUSSO, G.A., kandidat tekhnicheskikh nauk, redaktor; FILIMONOV, N.A., inzhener, redaktor; VOLKOV, L.N., inzhener, redaktor; GRISHIN, M.M., professor, doktor tekhnicheskikh nauk, redaktor; ZHURIN, V.D., professor, doktor tekhnicheskikh nauk, redaktor; LIKHACHEV, V.P., inzhener, redaktor; MKDVRDEV, V.M., kandidat tekhnicheskikh nauk, redaktor; MIKHAYLOV, A.V., kandidat tekhnicheskikh nauk, redaktor; PETROV, G.D., inzhener, redaktor; RAZIN, N.V., redaktor; . . . SOBOLEV, V.P., inzhener, redaktor; FERINGER, B.P., inzhener, redaktor; TSYPLAKOV, V.D., inzhener, redaktor; ISAYEV, N.V., redaktor; TISTROVA, O.N., redaktor; SKYORTSOV, I.M., tekhnicheskiy redaktor

[The Volga-Don Canal; technical report on the construction of the Volga-Don Canal, the TSimlyanskaya bydro development and irrigation works (1949-1952); in five volumes] Volgo-Don; tekhnicheskii otchet (continued on next card)

AGAPOV, D.S. --- (continued) Gard 2.

o stroitel'stve Volgo-Donskogo sudokhodnogo kanala imeni V.I.lenina.

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1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro tekhnicheskogo otcheta o stroitel stve Volgo-Dona. 2. Deystvitel nyy cheln Akedemii stroitel stva, i arkhitektury SSSR (for Razin) (Quarries and quarrying)

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24.7800

Kudzin, A. Yu. and Shapovalov, V.

AUT.KR3: TTTLB:

Effect of annealing on the repolarization of barium titanate

monocrystals

Fisika tverdoso tela, v. 4, no. 3, 1962, 650 - 652

TEXT: The authors studied the change in shape of the dielectric hysteresis of BaTiO $_3$ single crystals caused by annealing at $\sim 1200\,^{\circ}$ C. The measurements

were made in the range 50 cps - 15 kcps with ~0.1 mm thick crystal plates. Part of the samples had not been heated before, the others had been sub-tacted to 1 - 2 hrs heating at 1250°C in a silite furnace. A strong alternating field (E. = 5 ky/cm) heated the sample and changed the shape of the loop. Annealed samples which show a completely distorted loop are affected most by the alternating field: after the field has been applied for some seconds the loop becomes normal and spontaneous polarization $P_{\rm g}$ rises.

 $P_s(t)$ at 60 cps shows a peak at about 120°C, above this temperature P_s varishes abruptly. For samples heated to above the Curie point (140°C) Card 1/2

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Effect of annualing ...

the scape of the loop depends on the cooling rate; e. g. with j leg/min a double loop appears. When cooling slowly down to the Curie point and then cooling capitly, a triple loss may arise. Molding and increasing the temperature increased the polarization which indicates that not all crystal demains take part in repolarization. Multiple loops can be explained by Abels model (J. Phys. Soc. Japan, 14, 633, 1959; 15, 795, 1960). To clari-Ty the affect of the atmosphere, experiments were made with samples heated in 0_0 at 1250°C and in vacuum at 900°C. In the latter case a double loop appeared, not observed in the former case. A constant electrical field changes the kind of loop distortion. Ye. V. Sinyakov is thanked for disoussions. There are 5 figures and 5 references: 3 Soviet and 2 non-Soviet.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk

State University)

SUBLITTED: Cotober 21, 1961

Card 2/2

Pridoshchik, P.,; Basarch, h.; Londhayara, L.; Charlet CVA, T., starshiy dvoral; SHAPOVALOV, V. Lond; Limikin, M., tekhnik-cactritel'

Our quartment home. Zhil.-hom. Shor. 11 no. 1:4-6 '61.

(Mile 14:2)

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(Sevastopol' - Ayartment houses)

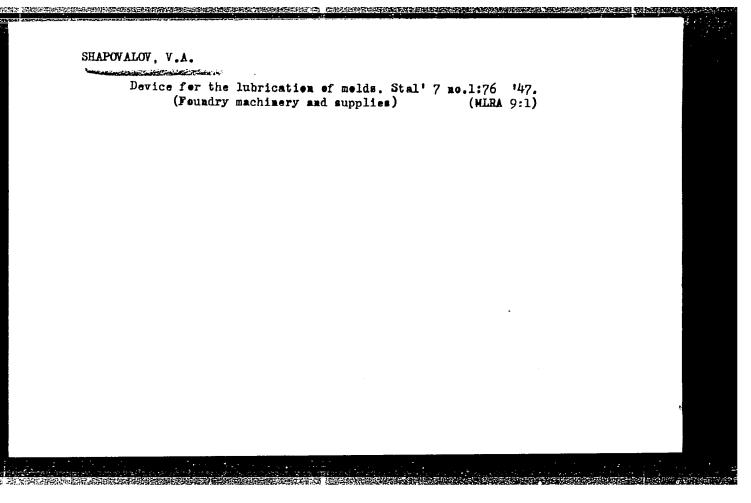
KUDZIN, A.Yu.; SHAPOVALOV, V.

Effect of annealing on repolarization of barium titanate monocrystals.

Fiz. tver. tela 4 no.3:650-652 '62. (MIRA 15:4)

1. Dnepropetrovskiy gosudarstvennyy universitet.

(Barium titanate crystals) (Hysteresis)



ARUTYUNOV, V.O., prof. doktor tekhn.nauk; SHAPOVALOV, V.D., kand. tekhn.nauk

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SHAPOVALOV, V.F.

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